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<b>(21) International Application Number:</b> PCT/US97/11982 <b>(22) International Filing Date:</b> 16 July 1997 (16.07.97)  <b>(30) Priority Data:</b> 60/021,908                      17 July 1996 (17.07.96)                      US  <b>(71) Applicants (for all designated States except US):</b> SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH [US/US]; 1275 York Avenue, New York, NY 10021 (US). SRI INTERNATIONAL [US/US]; 333 Ravenswood Avenue, Menlo Park, CA 94025 (US).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> SIROTNAK, Frank, M. [US/US]; Memorial Sloan Kettering Cancer Center, 1275 York Avenue, New York, NY 10021 (US). PIPER, James, R. [US/US]; Southern Research Institute, P.O. Box 55305, Birmingham, AL 35255 (US). DeGRAW, Joseph, I. [US/US]; 880 Hanover Avenue, Sunnyvale, CA 94087 (US). COLWELL, William, T. [US/US]; 1055 Del Norte, Menlo Park, CA 94025 (US).  <b>(74) Agent:</b> LARSON, Marina, T.; Oppedahl & Larson, Suite 309, 1992 Commerce Street, Yorktown Heights, NY 10598-4412 (US).		<b>(81) Designated States:</b> CA, JP, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> <u>PURIFIED COMPOSITIONS OF 10-PROPARGYL-10-DEAZAAMINOPTERIN AND METHODS OF USING SAME IN THE TREATMENT OF TUMORS</u>		
<b>(57) Abstract</b>  Highly purified 10-propargyl-10-deazaaminopterin (10-propargyl-10dAM) compositions tested in xenograft models for their efficacy against human tumors are shown to be far superior to methotrexate ("MTX") and are even superior to the newer clinical candidate edatrexate ("EDX"). Moreover, 10-propargyl-10dAM showed a surprising ability to cure tumors such that there was no evidence of tumor growth several weeks after the cessation of therapy. Thus, highly purified compositions containing 10-propargyl-10dAM can be used to treat human tumors, particularly human mammary tumors and human lung cancer.		

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## ABSTRACT

Highly purified 10-propargyl-10-deazaaminopterin (10-propargyl-10dAM) compositions tested in xenograft models for their efficacy against human tumors are shown to be far superior to methotrexate ("MTX") and are even superior to the newer clinical candidate edatrexate ("EDX"). Moreover, 10-propargyl-10dAM showed a surprising ability to cure tumors such that there was no evidence of tumor growth several weeks after the cessation of therapy. Thus, highly purified compositions containing 10-propargyl-10dAM can be used to treat human tumors, particularly human mammary tumors and human lung cancer.